Your Reliable Partner

µGuru

An ABIT Engineered Microprocessor

User's Manual

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Rev. 4.00

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MEMO

1. Introduction

Designed by ABIT Engineers, ***µGuru***[1] delivers an avalanche of advanced features; each specifically designed to give ABIT users total control over their system[2]. With ***µGuru***, users can take advantage of the most advanced suite of hardware monitoring, tweaking, and e-service tools ever offered on a desktop motherboard by an easy to use, Windows-based[3] interface. Never before have users experience a more robust, or user-friendly interface from which to base their PCs.

The ***µGuru*** family currently includes these major categories[4]:

1. **[ABIT EQ]:** Guarding your system by controlling and monitoring fan speeds, CPU, DDR, AGP voltages, and various system temperatures.
2. **[OC Guru]:** On-the-fly overclocking right from Windows.
3. **[FAN EQ]:** Intelligently control and monitor the fan's working status.
4. **[FlashMenu]:** Flash your BIOS in Windows with one single click.
5. **[BlackBox]:** Automatically recording system settings and configurations when sending information to ABIT for technical support via e-mail.

[1] µGuru = micro guru

[2] Although utilized currently for ABIT motherboards designed with Intel 945 and 955 chipset, ABIT Computer is constantly expanding the µGuru utility. More and more ABIT motherboards applied with µGuru technology are expecting.

[3] Available for operating system later than Windows 2000 and Windows XP.

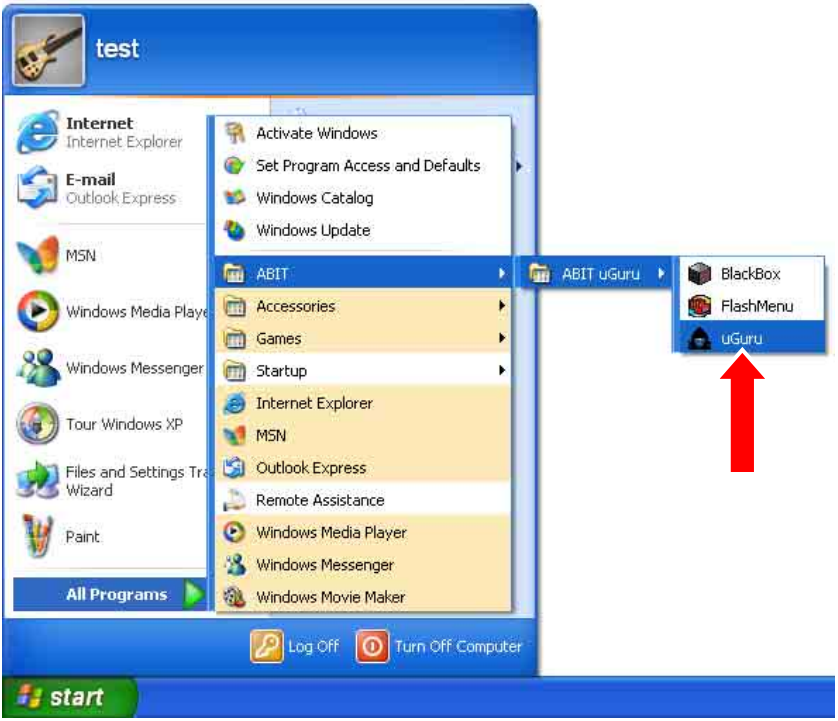
[4] The information in this document is subject to change without notice and does not represent a commitment on part of the vendor, who assumes no liability or responsibility for any errors that may appear in this manual.

2. Entering The ABIT µGuru Utility

You will have to install the driver first by the "Driver & Utility" CD came packed with your motherboard. Simply follow its instruction to complete the installation.

There are 3 ways of entering the ***µGuru Utility***:

(1) Execute the [uGuru] program by entering the Windows Menu [Start] ➔ [All Programs] ➔ [ABIT] ➔ [ABIT uGuru] ➔ [uGuru].

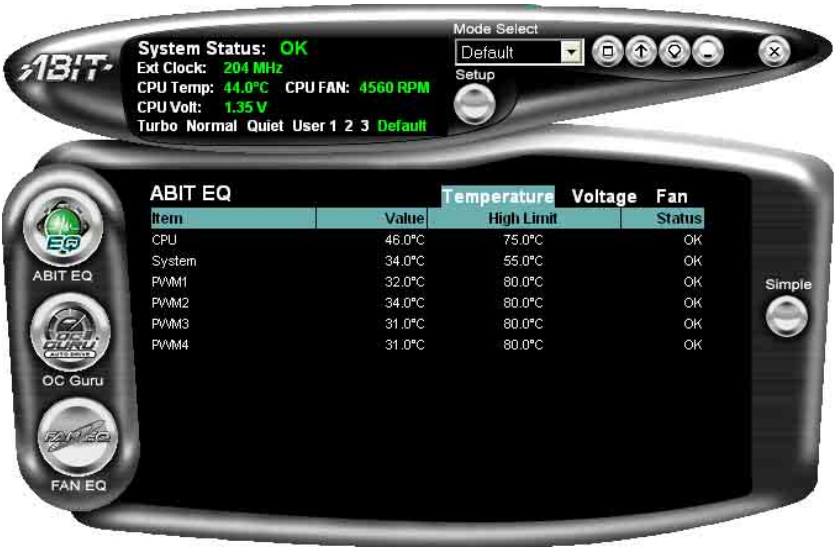


(2): After executed the [uGuru] program, a µGuru icon positioned at the status bar. Double click your mouse button on the µGuru icon.

(3): Or you may move your mouse pointer to the µGuru icon, and right-click your mouse button on the µGuru icon. Move your mouse pointer to [Maximize] and left-click on it.

3. ABIT EQ

ABIT EQ protects PC Hardware by monitoring critical items of temperature, voltage, and fan speed, taking action of sounding warning beeps, or even shutting down the system; if there is any preset error situation occurred. The values of these critical items are very easy to read out at a glimpse in a popped-up diagram.



3.1 Control Buttons

Click each of these buttons to enter their sub-screen.

Change Skin:
Change the skin for μGuru utility.

Always on Top:
Put the μGuru skin always on top of the other Windows screen.

Transparent Setting:
Set the transparency level for μGuru skin.

Minimize:
Minimize the main screen of ABIT EQ to the Windows working bar.

Close:
Exit the μGuru utility.

Simple:
Change the μGuru skin to a mini panel.

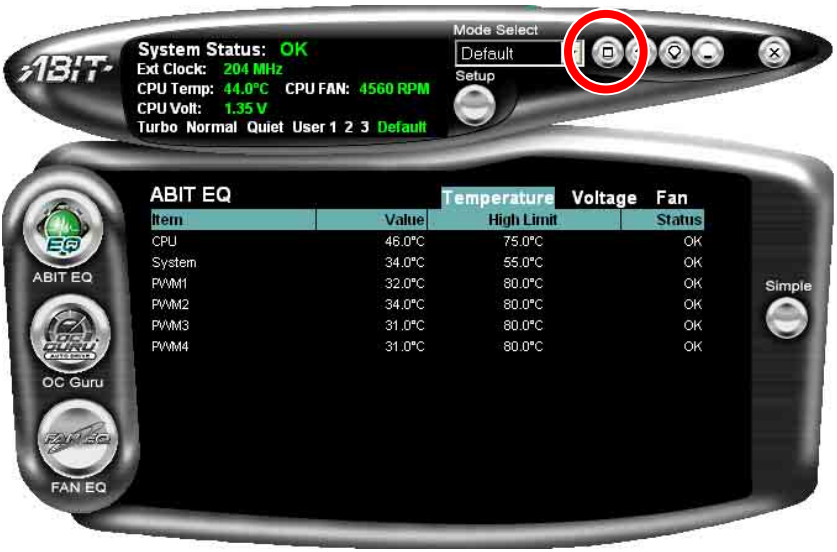
Setup:
Enter the setting page for all monitoring items.

ABIT EQ:
Change the monitoring page to ABIT EQ.

OC Guru:
Change the monitoring page to OC Guru.

FAN EQ:
Change the monitoring page to FAN EQ.

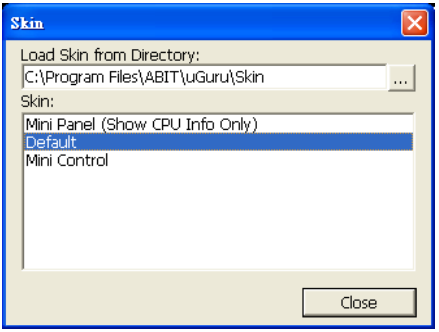
3.1.1 To Change the Skin:



To change the skin for µGuru utility, click the <Change Skin> button. A skin selection page popped up.

Here in this selection page you can select “Mini Control”, “Mini Panel”, “Default”, or any new skin.

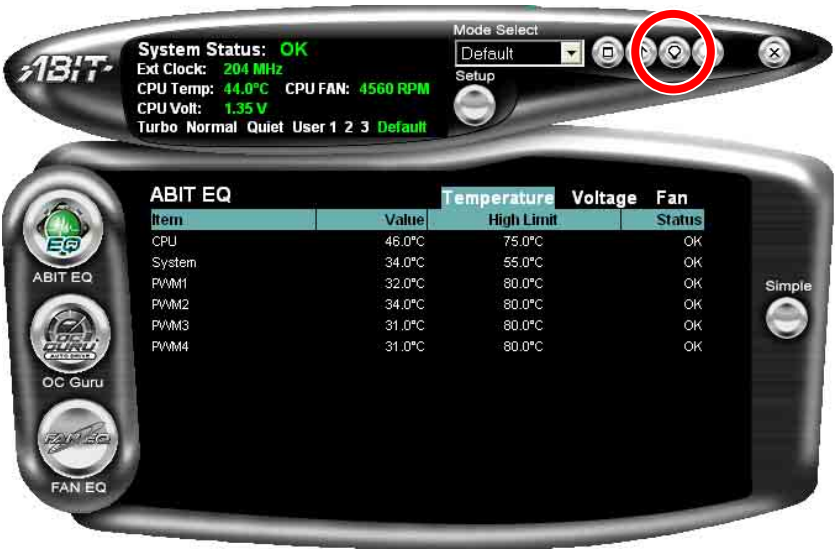
(The “Mini Panel” is the same result by clicking the “Simple” button.)



❋ **Mini Panel: (Show CPU information only)**

❋ **Mini Control:**

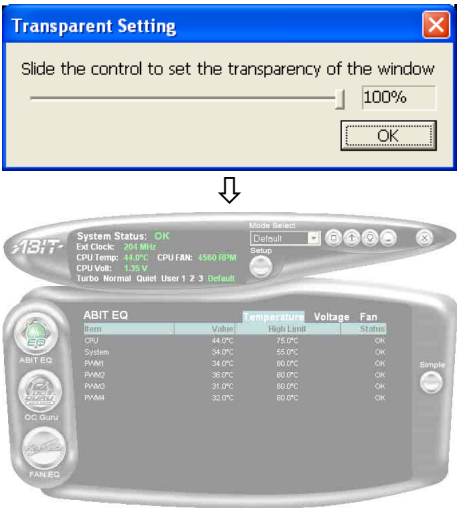
3.1.2 To Set the Transparent Level:



To set the transparent level, click the <Transparent Setting> button. A Transparent Setting page popped up.

Drag the adjusting bar leftward or rightward by your mouse pointer to change the level. Click the <OK> button to activate the new settings at once and exit the sub-screen, or click the <⊠> button to cancel the new settings and exit the sub-screen.

Another way to change the level can be done by moving the left or right arrow on your keyboard.



3.1.3 To Select Preset and User-defined Mode:

There are several preset and user-defined modes to select by clicking the downward arrow at the <Mode Select>.

[**Default**]: Same configuration as you set up the uGuru option in the BIOS menu.

[**Turbo**] [**Normal**] [**Quiet**]: Factory preset modes.[5]

[**User1**] [**User2**] [**User3**]: User-defined modes.

[**AutoDrive**]: Also a user-defined mode for quick accessing one specific mode for any program you would like to execute.

[5] The [Turbo], [Normal], and [Quiet] mode are factory-preset, unchangeable options whose configuration items will be grayed out.

3.2 The Setup for ABIT EQ

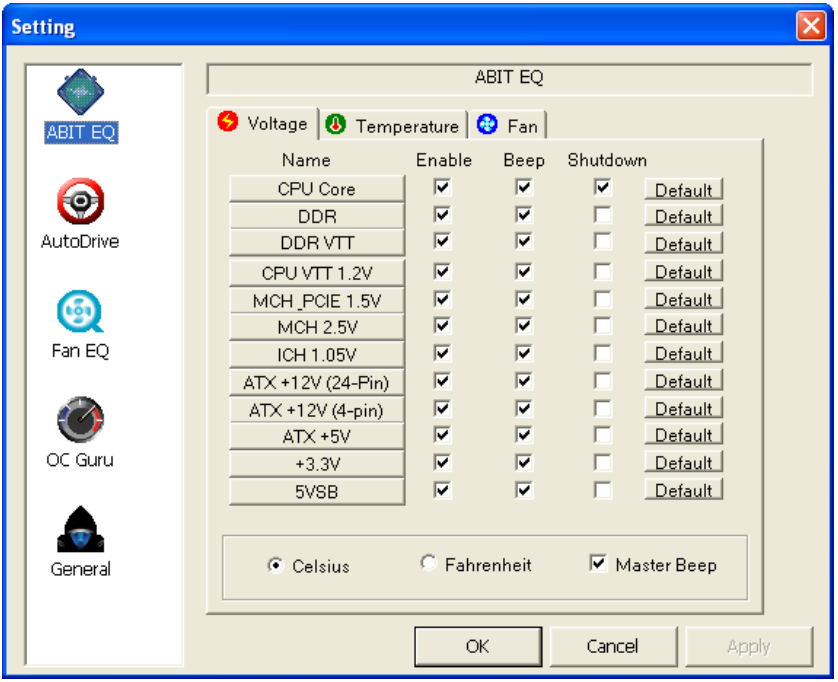
To enter the setup sub-screen for ***ABIT EQ***, first change[6] the monitoring page to ***ABIT EQ*** by clicking the <ABIT EQ> button, then click the <Setup> button.

In the ***ABIT EQ*** sub-screen, there are "Voltage", "Temperature", and "Fan" monitoring items. You can click on each tab to enter its contents and make your monitoring selection.

3.2.1 Voltage Monitoring:

You can decide to have the ABIT EQ monitoring any abnormal working voltage status over your motherboard.

[6] The ***ABIT EQ*** is the default monitoring-page when first entering the ***µGuru Utility***.



[**Name**]: This column lists the monitoring items according to the corresponding items of your motherboard.

[**Enable**]: Check each of these boxes to enable their monitoring function.

[**Beep**]: Check each of these boxes to sound warning beep via the PC speaker after the high or low limitation for each monitoring item had been detected.

[**Shutdown**]: Check this box to shut down the system 30 (thirty) seconds after the high or low limitation for each monitoring item had been detected.

[**Default**]: Click each of these buttons to set the high and low limitation for each monitoring item to its default value.

[**Celsius/Fahrenheit**]: Check this box to select the temperature-measuring unit in Celsius or Fahrenheit. The value of measuring unit will be replaced in real time.

[**Master Beep**]: Check this box to enable the “Beep” selections. Uncheck this box to disable all the “Beep” selections.

[**OK**]: Click this button to activate the new settings at once and exit the sub-screen.

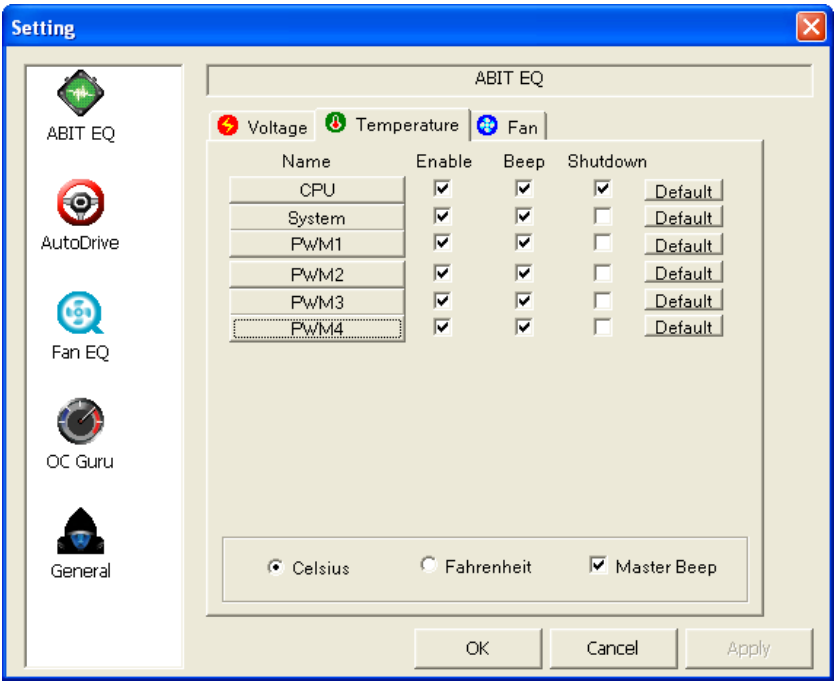
[**Cancel**]: Click this button to cancel the new settings and exit the sub-screen.

[**Apply**]: Click this button to activate the new settings at once.

Note: *These items are for reference only. All the names and items differ according to each motherboard model.*

3.2.2 Temperature Monitoring:

You can decide to have the ABIT EQ monitoring any abnormal temperature status over your motherboard.



[**CPU**]: This column configures the CPU temperature.

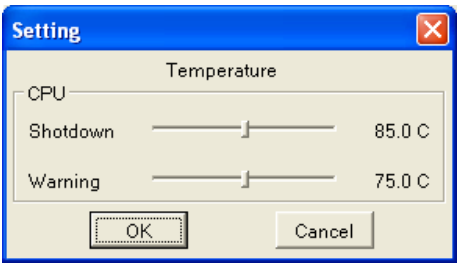
[**System**]: This column configures the system temperature.

[**PWM1**] ~ [**PWM4**]: This column configures the temperature around the CPU power supplying circuit.

Note: *These items are for reference only. All the names and items differ according to each motherboard model.*

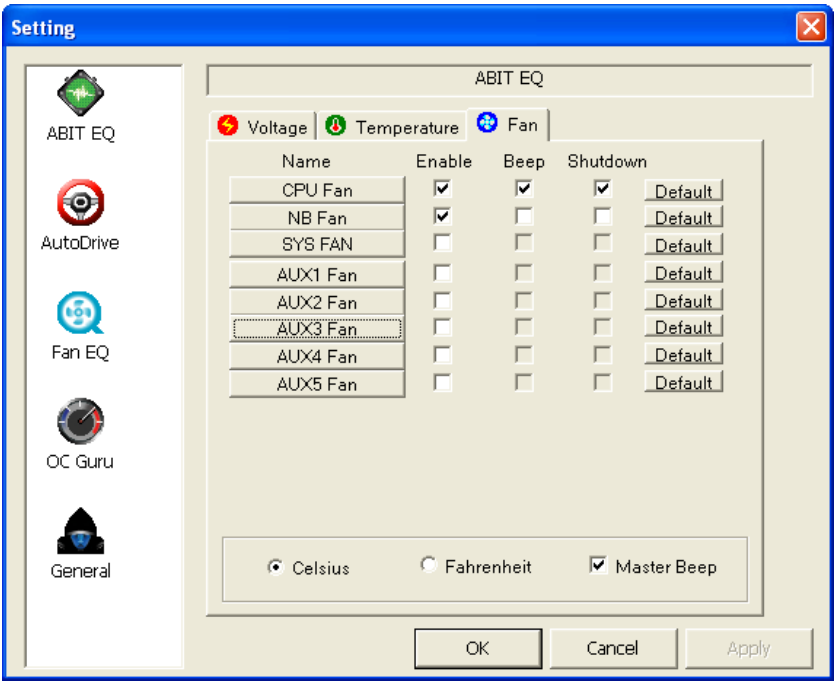
To adjust the high and low limitation for each item, click on the item you want, the setting sub-screen appears. Drag the adjusting bar leftward or rightward by your mouse pointer to change the value.

Click the <OK> button to activate the new settings at once and exit the sub-screen, click the <Cancel> button to cancel the new settings and exit the sub-screen.



3.2.3 FAN Monitoring:

You can decide to have the ABIT EQ monitoring any abnormal fan working status over your motherboard.



[**CPU Fan**]: CPU fan header.

[**NB Fan**]: North Bridge fan header.

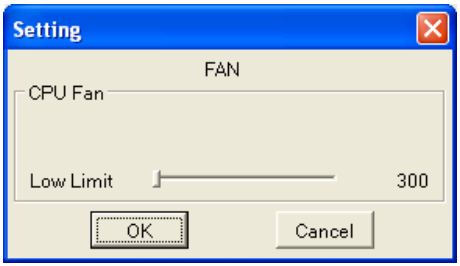
[**SYS Fan**]: System fan header.

[**AUX1 / AUX2 / AUX3 / AUX4 / AUX5 Fan**]: These items are available only on the motherboards equipped with these fan headers.

Note: *These items are for reference only. All the names and items differ according to each motherboard model. Only the fans with three output pins can be monitored!*

To adjust the high and low limitation for each item, click on the item you want, the setting sub-screen appears. Drag the adjusting bar leftward or rightward by your mouse pointer to change the value.

Click the <OK> button to activate the new settings at once and exit the sub-screen, click the <Cancel> button to cancel the new settings and exit the sub-screen.



4. OC Guru

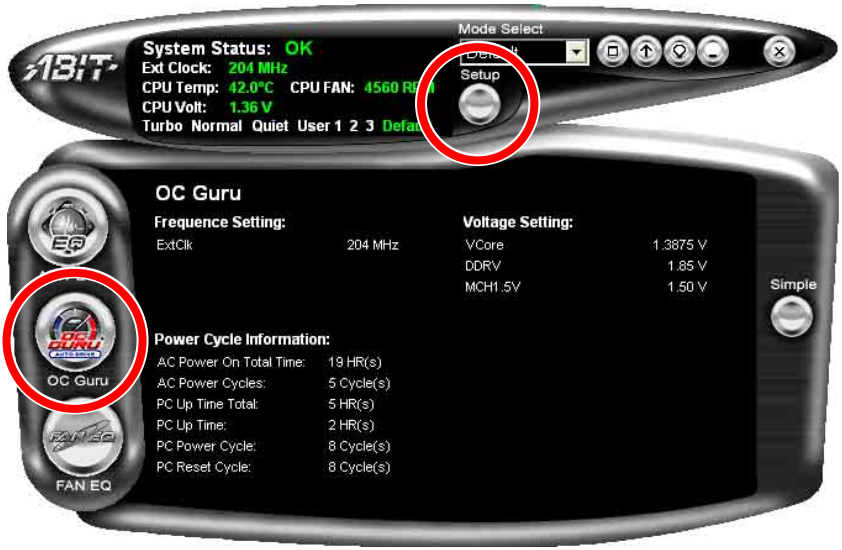
The ***OC Guru*** is a Windows-based over clocking utility allowing you to automatically and immediately over clocks the external clock for an extra hit of juice.

All the settings adjusted under ***OC Guru*** are displayed in real-time, allowing the most control over their systems, as well as instant hardware gratification, and save it into different settings.

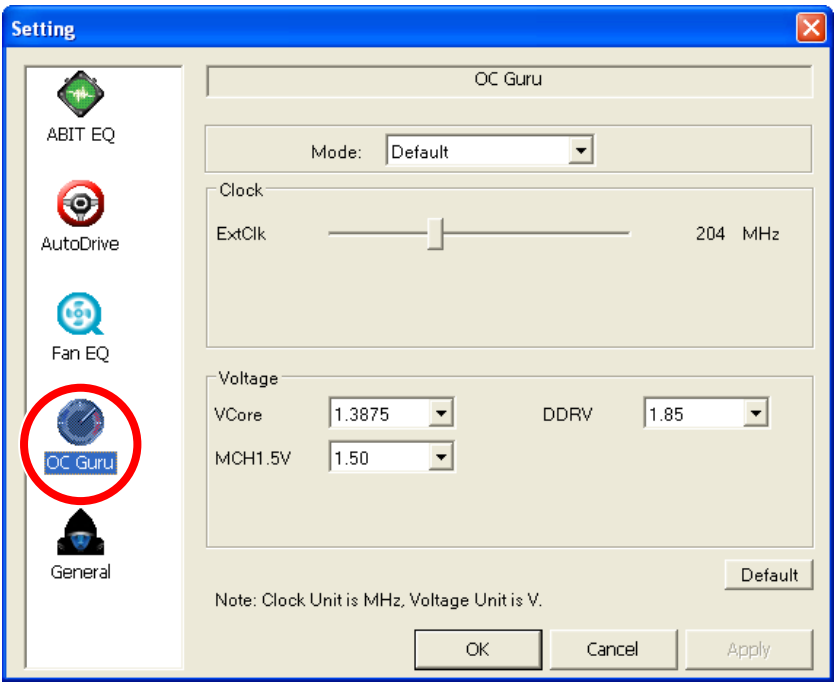
The ***OC Guru*** utilizes hard ware technique to protect the act of over clocking failure. Once the system fails by over clocking, users can reset the system to have it rebooted, and then the system will be back to its previous optimized setting.

4.1 The Setup for OC Guru

To enter the setup sub-screen for ***OC Guru***, first change the monitoring page to ***OC Guru*** by clicking the <OC Guru> button, then click the <Setup> button. In the ***OC Guru*** sub-screen, you can adjust the Frequency Setting for external clock, or adjust the Voltage Setting for "VCore", "DDRV", and "MCH" monitoring items.



4.1.1 OC Guru Setting:



[**ExtClk**]: Change the CPU external clock by 1MHz interval. Drag the adjusting bar leftward or rightward by your mouse pointer to change the value.[7] The value of the external clock is illustrated simultaneously. Another way to change the value can be done by moving the left or right arrow on your keyboard.

[**VCore**]: Change the CPU core voltage. Point your mouse to the triangle mark and click on it to pull down the voltage table. Choose adequate figure.

[**DDRV**]: Change the DIMM slot voltage. Point your mouse to the triangle mark and click on it to pull down the voltage table. Choose adequate figure.

[**MCH1.5V**]: Change the working voltage for MCH (Memory Controller Hub). Point your mouse to the triangle mark and click on it to pull down the voltage table. Choose adequate figure.

[7] The risk of raising external clock too high over CPU's standard specification may fail your system. Please proceed with care.

[**Default**]: Click this button to set all the monitoring items to their default value.

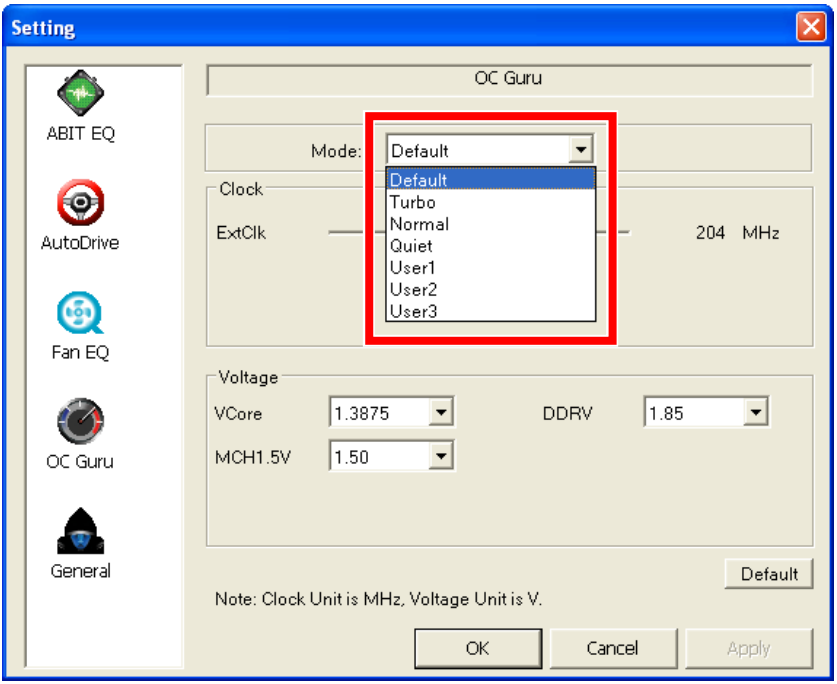
[**OK**]: Click this button to activate the new settings at once and exit the sub-screen.

[**Cancel**]: Click this button to cancel the new settings and exit the sub-screen.

[**Apply**]: Click this button to activate the new settings at once.

4.1.2 OC Guru Mode Selection:

Besides the original [Default] setting, there are three Factory-Preset options and three User-Defined options. To select the OC Guru mode, point your mouse to the triangle mark and click on it to pull down the mode table to select.



❋ **Factory-Preset, unchangeable modes:**

[**Turbo**]: This mode controls the parameters regarding CPU, Memory Modules, AGP and PCI Frequency, and Fan Speed by aggressive values, allowing higher speed in performance.

[**Normal**]: This mode controls the parameters regarding CPU, Memory Modules, AGP and PCI Frequency, and Fan Speed by their standard default value.

[**Quiet**]: This mode controls the parameters regarding CPU, Memory Modules, AGP and PCI Frequency, and Fan Speed by in-aggressive values, resulting lower speed in performance.

❋ **User-Defined, changeable modes:**

[**User1**], [**User2**], and [**User3**]: These independent options allow you to have three personal defined settings.

4.2 OC Guru Failure

Despite the convenient over-clocking method that may be done by ***OC Guru***, it does not guarantee for every over-clocking attempt. A successful attempt will have the system become effective immediately, while as the fail attempt will have the system hanged.

4.2.1 What If Over Clocking Fails

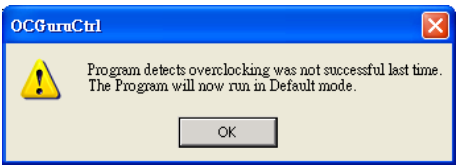
When the system hanged by the act of over clocking, you will have to shut down the AC power first.[8]

To shut down the AC power manually, you may:

(1) keep pressing the <Power> switch for more than four seconds, or

(2) switch off or unplug the AC power cord.

After the system rebooted from AC power back on, the following screen shot appears. Click [OK] to go on the system boot up.



Now your OC Guru configuration will be forced back to its factory default. You can try another safer OC Guru configuration.

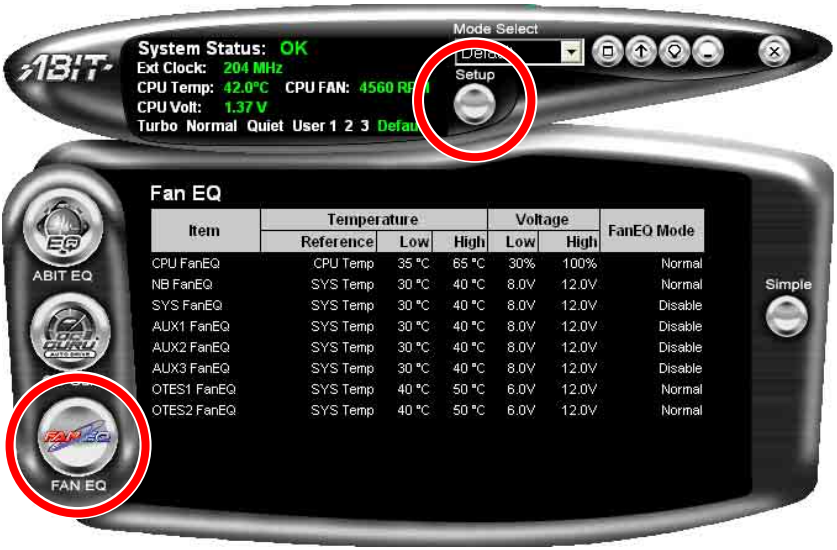
[8] Pressing the <Reset> switch is unable to reboot the system when OC Guru fails.

5. FAN EQ

The ***FanEQ*** intelligently and automatically adjusts CPU fan speed according to system load and temperature. It lowers fan speed when CPU and Chipset temperature is decreased due to lighter system load, ensuring a quiet computing environment. Accompanied with the almost noiseless environment is the eager for more power saving, performance increasing, and easing off CPU loading.

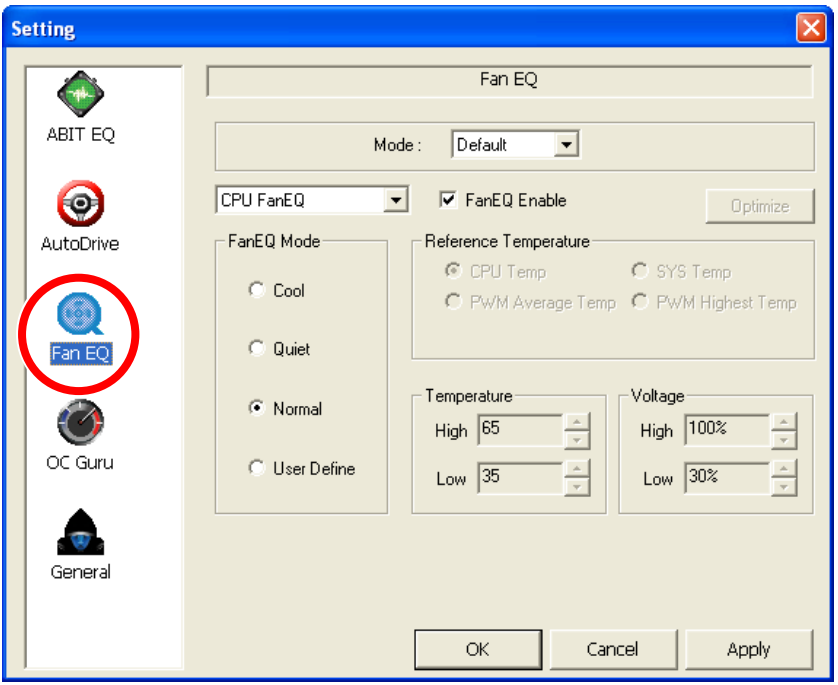
5.1 The Setup for FAN EQ

To enter the setup sub-screen for ***FAN EQ***, first change the monitoring page to ***FAN EQ*** by clicking the <FAN EQ> button, then click the <Setup> button. In the ***FAN EQ*** sub-screen, you can adjust the fan speed by the percentage of voltage provided to each fan headers.



Item	Temperature			Voltage		FanEQ Mode
	Reference	Low	High	Low	High	
CPU FanEQ	CPU Temp	35 °C	65 °C	30%	100%	Normal
NB FanEQ	SYS Temp	30 °C	40 °C	8.0V	12.0V	Normal
SYS FanEQ	SYS Temp	30 °C	40 °C	8.0V	12.0V	Disable
AUX1 FanEQ	SYS Temp	30 °C	40 °C	8.0V	12.0V	Disable
AUX2 FanEQ	SYS Temp	30 °C	40 °C	8.0V	12.0V	Disable
AUX3 FanEQ	SYS Temp	30 °C	40 °C	8.0V	12.0V	Disable
OTES1 FanEQ	SYS Temp	40 °C	50 °C	6.0V	12.0V	Normal
OTES2 FanEQ	SYS Temp	40 °C	50 °C	6.0V	12.0V	Normal

5.1.1 FAN EQ Setting:



[**FanEQ Enable**]: Check this box to enable the FAN EQ function so as to control the fan speed automatically by different state of configuration.

[**FanEQ Mode**]: Select the mode you want to configure this item. You can select the [User Define] mode for your personal settings, or you can simply select one of the three factory preset modes among [Cool], [Quiet], or [Normal].

[**Reference Temperature**]: Select the reference point of temperature taking for the FAN EQ type.[9]

[**Temperature**]: Set the high and low temperature limit for Fan EQ threshold. Point your mouse to the triangle mark and click up or down for the centigrade you want.

[**Voltage**]: Set the high and low voltage limit for Fan EQ threshold. Point your mouse to the triangle mark and click up or down for the voltage you want.

[9] The type [CPU FanEQ] does not have this [Reference Temperature] selection.

[**Optimize**]: Beside the personal configuration, another easy and optimizing way to configure can be done by clicking this <Optimize> button to let your system find its optimized fan configuration.

To optimize the fan configuration automatically: (take the type "SYS FanEQ" for example)

(1) Select <User Define> mode for the FAN EQ.

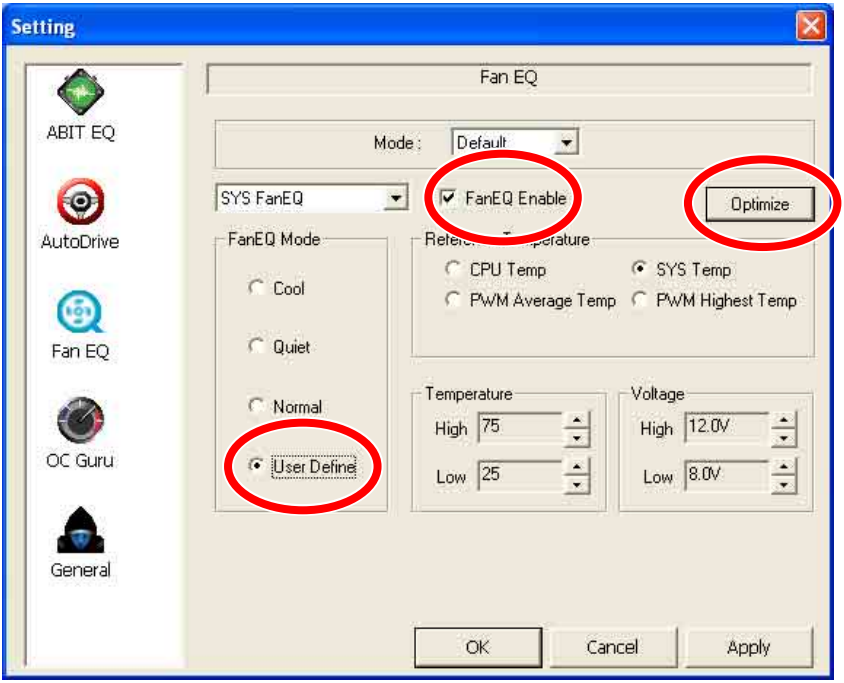
(2) Check the <FanEQ Enable> box.

(3) Click the <Optimize> button. Wait a few seconds; the FANEQ will find its best configuration automatically.

[**OK**]: Click this button to activate the new settings at once and exit the sub-screen.

[**Cancel**]: Click this button to cancel the new settings and exit the sub-screen.

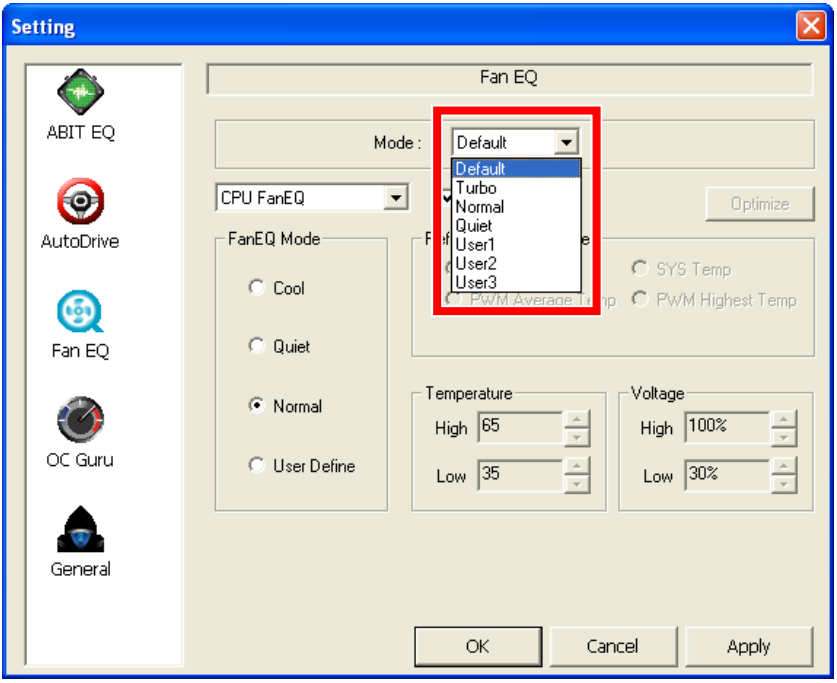
[**Apply**]: Click this button to activate the new settings at once.



5.1.2 FAN EQ Mode Selection:

Same as the OC Guru Mode Selection, there are also three Factory-Preset options and three User-Defined options besides the original [Default] setting.

To select the FAN EQ mode, point your mouse to the triangle mark and click on it to pull down the mode table to select.

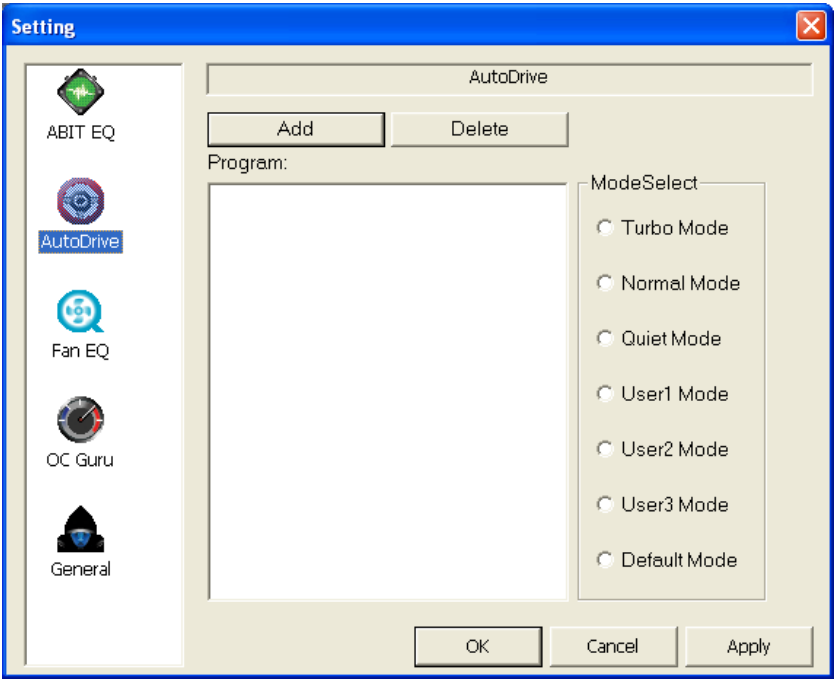


6. AutoDrive

The “Auto Drive” is a quick access of configuring one specific mode for any program you would like to have. For example, you can select “Turbo” mode for running some particular games, or you can select “Quiet” mode for running media player.

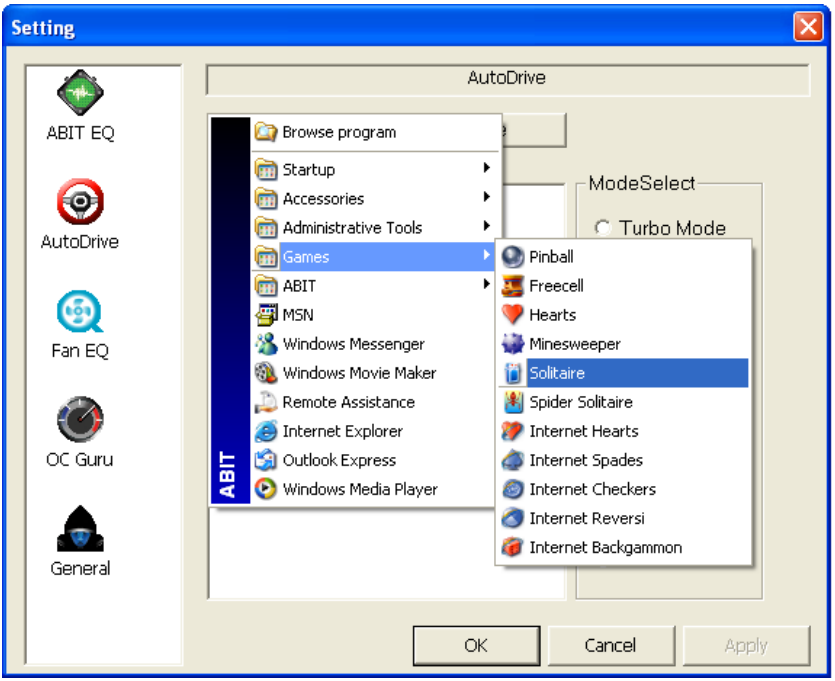
6.1 The Setup for AutoDrive

To enter the setup sub-screen for ***AutoDrive***, as illustrated in previous section, first change the monitoring page to any one of the ***ABIT EQ***, ***OC Guru***, or ***FAN EQ*** by clicking their corresponding button, then click the <Setup> button.



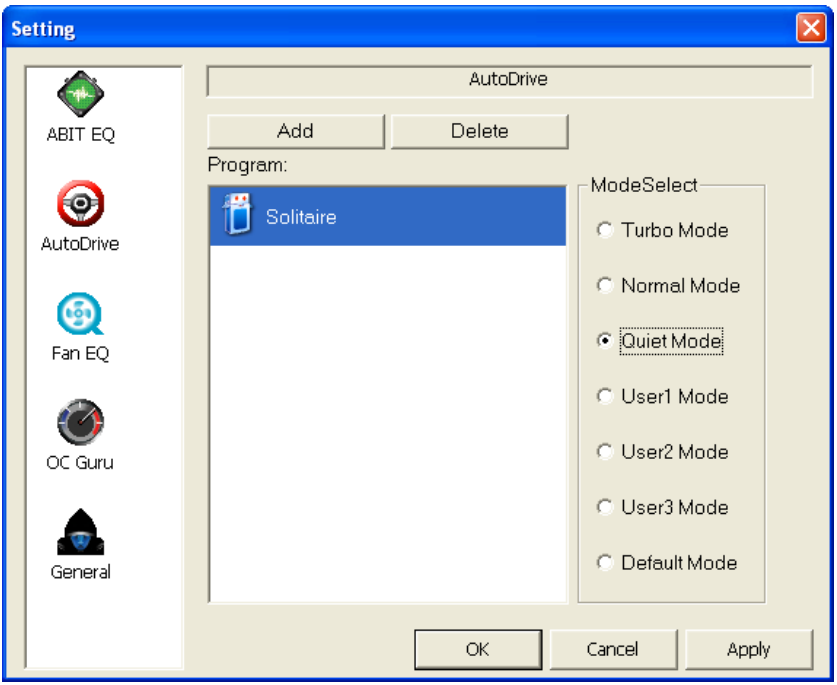
[**Add**]: Click this button to add any program installed in your system.

After clicking the <Add> button, the following diagram appears.



Move your mouse pointer to any program you would like to specify, and select any mode you want.

[**Delete**]: Select the program you want to delete, and the click this button .



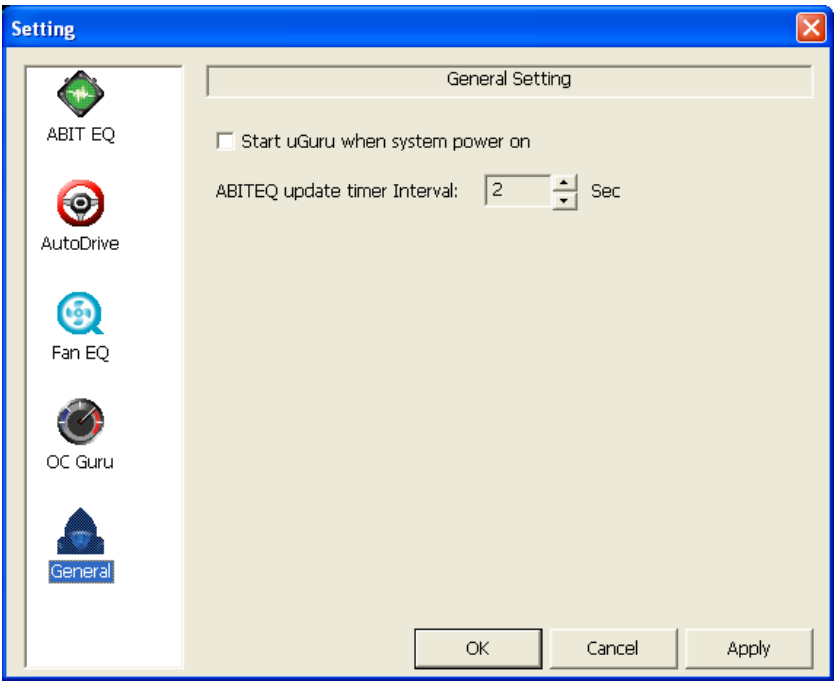
[**OK**]: Click this button to activate the new settings at once and exit the sub-screen.

[**Cancel**]: Click this button to cancel the new settings and exit the sub-screen.

[**Apply**]: Click this button to activate the new settings at once.

7. General

In this ***General Setting***, you can select whether to start up ***µGuru Utility*** or not every time the system restarts.



By the default settings, the ***µGuru Utility*** will refresh your µGuru configuration every two seconds. To change the time interval, move the upward or downward arrow to make your selection.

[**OK**]: Click this button to activate the new settings at once and exit the sub-screen.

[**Cancel**]: Click this button to cancel the new settings and exit the sub-screen.

[**Apply**]: Click this button to activate the new settings at once.

8. FlashMenu

The ***ABIT FlashMenu*** is the most stable Windows-based BIOS flash available. No more worries from crashing. With one click of BIOS updating, ABIT users can flash their BIOS more easily and in less time.

[ ]: Click this button to toggle this program.

[ ]: Click this button to link to ABIT's Technical Support Web Site.

[**Update From File**]: Click this button to update your BIOS by the BIOS file previously downloaded and stored in your PC.

[**Save BIOS**]: Click this button to save the current BIOS version run by your PC.

[**One Click LiveUpdate**]: Click this button to update your BIOS without any further prompt.

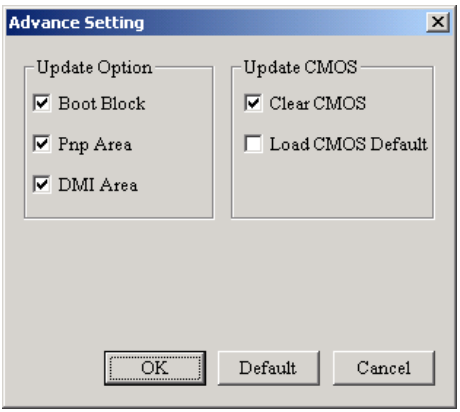
You must have your system connected to the Web. The program will find the path to ABIT's Web Site and do the BIOS update automatically.

[**LiveUpdate Step by Step**]: Click this button to update your BIOS step by step.

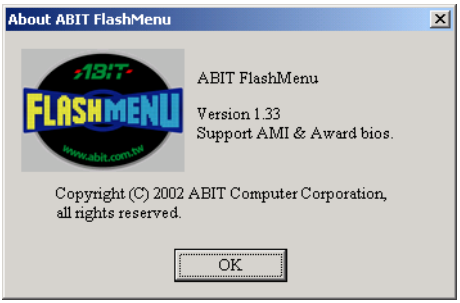
You must have your system connected to the Web. The program will find the path to ABIT's Web Site and prompt you to do the BIOS update step by step.

[**Stop**]: Click this button to stop downloading the BIOS.

[**Setting**]: Click this button to enter the sub-screen of "Advance Setting".

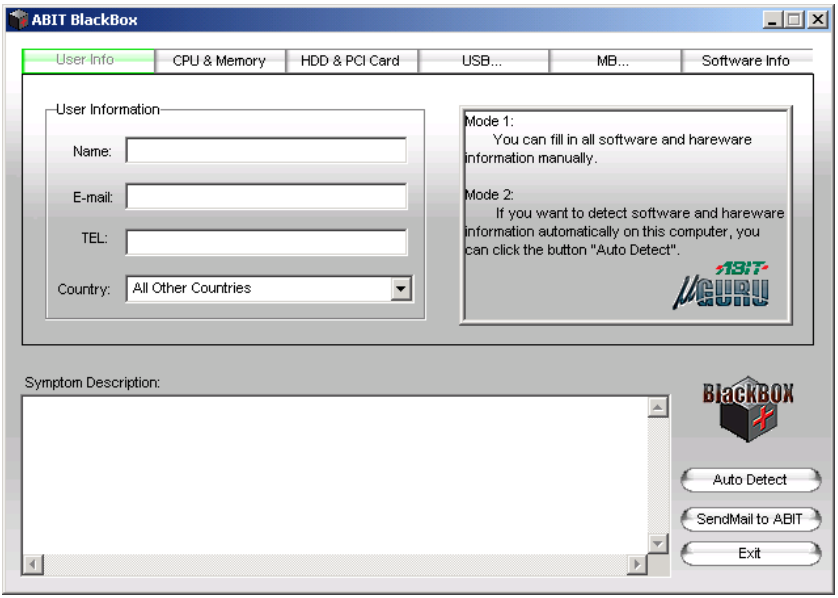


[**About**]: Click this button to bring out the version screen.



9. BlackBox

As the name depicted, the ***ABIT BlackBox*** acts like the black box found on aircrafts. When your system crashes, it will record information pertinent to your system and problem, such as CPU Type, CPU speed, memory size, and a summary of devices presented in your PC into a text file. You can then automatically e-mail ABIT for technical support with this text file. ABIT will then be able to determine your problem and will e-mail you back directly with solution.



There are six pages of documentation you will need to fill in after entering the ***ABIT BlackBox***: (1) User Info, (2) CPU & Memory, (3), HDD & PCI Card, (4) USB, (5) MB, and (6) Software Info.

[**Auto Detect**]: Besides the manually documentation filling, all the hardware information can be detected automatically by clicking this button.

Note: *You still have to fill in your problem in the "Symptom Description" box manually.*

[**Send Mail to ABIT**]: After finishing the documentation, you can click this button to send the text file of your problem by e-mail to ABIT for help.

[**Exit**]: Click this button to cancel and exit the ***ABIT BlackBox***.